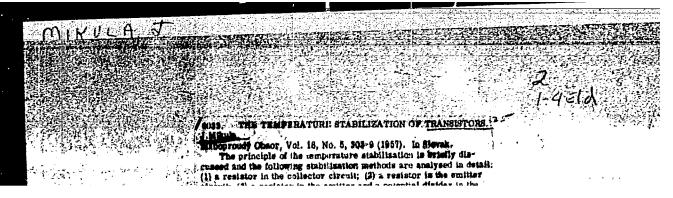
MIKULA, J.

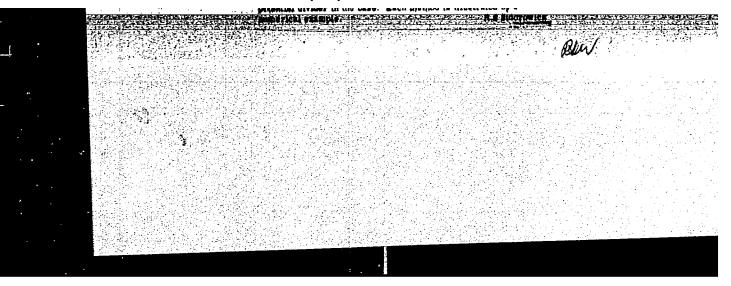
MIKULA, J. Fundamental transitor parameters expressed in terms of the characteristic H magnitudes and transformations between the characteristic H and H nagnitudes. Praxe. p. P25

Vol. 17, no. 7, 1956 SLABOPROUDY OBZOR TECHNOLOGY Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957



"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001134210011-7



"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001134210011-7

M. KULH, JAN

CZECHOSLOVAKIA/Radio Physics - Reception of Radio Waves

I-6

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 11378

Author : Mikula Jan

Inst : Not Given

Title :: Feedback in Transistors.

Orig Pub: Slaboproudy obzor, 1957, 18, No 8, 533-538

Abstract : Examination of two of the most frequency encountered types of

feedback in transistor amplifiers (resistance feedback in grounded-electrode circuit and feedback from the output to

the input of the stage through a resistance).

Card : 1/1

2

621,362 THE JUNCTION TRANSLETOR AS A HIGH PREQUENCY

6314. THE JUNCTION TRANSISTOR AS A HIGH FREQUENCY AMPLIFIER. J.Mikula:
Slatoproudy Octor, 767-19, No. 7, 433-6 (1958). In Stovak.
The transistor is represented by a s-type equivalent circuit (with base-emitter and base-collector capacitances) and is used as a common-emitter amplifying stage. The input signal is derived from a source having internal, admittance Yg and the output signal is measured across an admittance Yz. It is shown that for certain Yg and Yz the amplifier may become unstable. This can be eliminated by introducing neutralizing circuits. Four types of neutralization are considered: parallel, series, series-parallel and parallelseries. General conditions for neutralization of the amplifier are derived, but only the parallel-type system is dealt with in detail. It is shown that in a neutralized stage, the input admittance of the system is independent of Yz and the output admittance is independent system is independent of Yz and the output admittance is independent of Yg. R.S.Sidorowicz

MIKULA, J.

"Neutralization of transistor low-frequency amplifiers." p. 31.

SLABOPROUDY OBZOR. (MINISTERSTVO PRESNEHO STROJIRENSTVI, MINISTERSTVO SPOJU A VEDECKA TECHNICKA SPOLECNOST PRO ELEKTROTECHNIKU PRI CSAV.) Praha, Czechoslovaki: Vol. 20, no. 1, Jan. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959. Uncl.

2/039/60/021/05/003/029 E140/E135

Ján Mikula, Engineer AUTHOR:

Power Gain of a Neutralised Transistor IF-Amplifier as TITLE:

a Function of Bandwidth

PERIODICAL: Slaboproudý Obzor, Vol 21, 1960, Nr 5, pp 268-272

ABSTRACT: A matrix solution is given for a tuned transistor singlestage amplifier with three taps on the coil. In a twostage amplifier the neutralisation tap on the first coil may be combined with that for the load. In parallel neutralisation the transformation ratio for neutralisation has no essential influence on amplification. For serial-parallel and parallel-serial neutralisation the neutralisation tap is substituted by the impedence ratio of the neutralisation four-terminal network. For a given bandwidth the maximum power gain is obtained by matching

Card 1/1

the useful load to the output conductance of the transistor without considering the conductance of the circuit itself. The method may be extended to arbitrary type of neutralisation. There are 10 figures and 4 references of which 1 is German, 1 Soviet and 2 Czech.

SUBMITTED: September 25, 1959

23896

9.2520 (1134, 1159, 1161)

Z/039/61/022/011/003/006 D291/D304

AUTHOR:

Mikula, Jan, Engineer

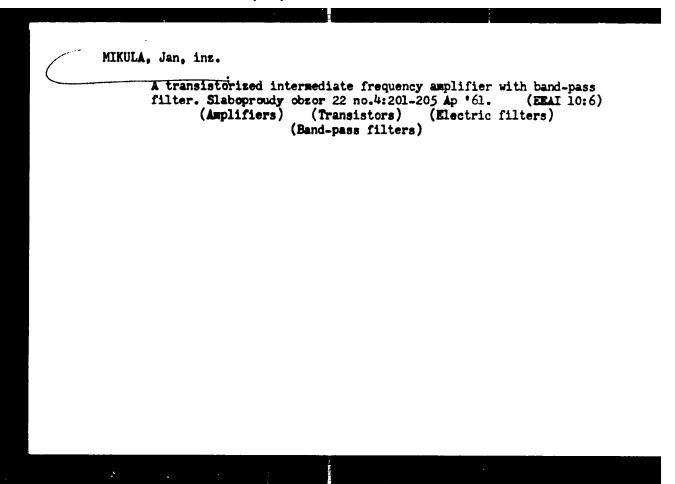
TITLE:

Temperature stabilization of the gain of an AF amplifier

PERIODICAL:

Slaboproudy obsor, v. 22, no. 11, 1961, 659-663

TEXT: The article describes the temperature stabilization of the gain of an AF amplifier with a common emitter, with the aid of a suitable generator resistance, assuming good temperature stabilization of the dc working point. Transistor parameters can either be changed by heat directly at a constant working point, or indirectly when the heat causes a change of the working point. The known method of stabilizing the amplifier gain with thermistors or semiconductor diodes is discarded by the author in favor of a new stabilization method, utilizing a suitable value of the generator resistance at simultaneous temperature stabilization of the dc working point. The tests under report were personal stabilization of the dc working point. The new stabilization method formed with a TESLA 104NU70 transistor. considers all influences which act upon the transistor during amplification. It is inadequate, as the author points out, to represent Card 1/4



Z/039/61/022/011/003/006 D291/D304

 \mathcal{Y}

Temperature stabilization ...

temperature stabilization by a voltage amplification formula

= constant since the stabilization is upset, if the amplifier is fed by a source where $R_g \neq 0$ ($R_g = generator resistance$). This is caused by the fact that the input resistance of the transistor depends on the temperature. The test were, therefore, conducted with an actually connected transistor with a given generator resistance, within a temperature range from +40 to -40°C. The voltage amplification of the transistor (with a view to the generator voltage) loaded with the resistance R is:

$$A_{u} = \frac{-h_{21}R_{z}}{h_{11} + R_{g} + (\Delta_{h} + h_{22}R_{g})R_{z}}$$
(2)

In the case of resistance-coupled amplifiers with common emitter, for

Card 2/4

28396

Z/039/61/022/011/003/006 D291/D304

Temperature stabilization ...

small R_{g} and R_{g} , Eq. (2) can be simplified to

 $A_u = \frac{h_{21}R_z}{h_{11} + R_g}$ (5) on condition that $h_{11} + R_g \gg (\triangle_h + h_{22} R_g)R_z$.

The author then proves that amplification throughout the entire temperature range (+40 to -40°C) remains almost constant and shows a maximum of only 3%. The deviation in case of cascade connection amounted to only 1.35%. For resistance-coupled amplifiers, where R and R represent

parameters appear, may be used for calculating amplification and input resistance. Generator resistance must be considered when suggesting a temperature stabilization of the amplifier, since it affects the amplification when the input resistance fluctuates due to temperature, and appropriate generator resistance is, therefore, the parameter which enables a good temperature stabilization of the amplifier gain. Temperature stabilization of the applifier gain.

Card 3/4

X

2∂396 **Z/039/61/022/011/0**03/006 **D291/D304**

X

Temperature stabilization ...

amplifier with the aid of generator resistance, also simultaneously solves the temperature stabilization of the entire cascade gain. However, temperature stabilization of the gain with the aid of generator resistance requires a good temperature stabilization of the working point. The changes of h_{11} and h_{21} parameters are such that $h_{11} = f(h_{21})$ represents a straight line which enables a good temperature stabilization of the gain to be realized throughout the entire temperature range, or a mathematical or graphic suggestion for appropriate generator resistance by measuring h_{11} and h_{21} at two given temperatures. There are 17 figures.

SUBMITTED: May 30, 1961

Card 4/4

MIKULA, Jan, ins.

Comparison of two methods of temperature gain stabilisation in transistorised less-frequency amplifiers. Slaboproudy obsor 24 mo.7:405-407 Jl *63.

MIKULA, Jan, inz.

Assembling the admittance matrix of a network system from the matrices of component n-poles. Slaboproudy obzor 25 no.1:18-20 Ja'64.

L 20585-66 EMP(t) DIAAP/IJP(o) JD

ACC NR: AP6012013 SOURCE CODE: PO/0046/65/010/008/0517/051

AUTHOR: Mikulski, Jan; Szeglowski, Zdzislaw

28

ORG: Institute of Muclear Physics, Krakow

TITIE: Electrolytic preparation of lead targets from stable isotopes sup 206Pb and sup 207 Pb in sulphates form

SOURCE: Nukleonika, v. 10, no. 8, 1965, 517-518

TOPIC TAGS: high purity metal, lead, electrolytic refining, electrolysis

ABSTRACT: Preparation of high-purity lead by electrochemical methods is described. Double electrolysis was used since lead deposited in the electrolysis of lead comple salt solutions is not suitable for forming targets. The lead deposited in this electrolysis is therefore dissolved in perchloric acid and electrolyzed once more. As a result of the second electrolysis metallic lead of a fine-grained structrue and gook adherence to a platinum electrode was obtained. The authors thank Professor A. Hrynkiewicz for suggesting the problem.

SUB CODE: 11, 07 / SUBM DATE: 22May 65 / OTH REF: 002

Card 1/1 15K

L 31815-66

ACC NR: AP6021655

SOURCE CODE: CZ/0039/65/026/007/0412/041

38

AUTHOR: Hikula, Jan (Engineer)

ORG: Antonin Zapotocky Military Academy, Brno (Vojonska akademie Antonina Zapotoske)

TITIE: Simplified assembly of matrices for circuit systems

SOURCE: Slaboproudy obzor, v. 26, no. 7, 1965, 412-415

TOPIC TAGS: electronic circuit, electronic transformer, mathematic matrix

ABSTRACT: The article contains a description of a simplified method of assembling the resultant matrix of oriented circuit systems containing lossless transformers as well. The resultant matrix is determined from the matrices of the component n-terminal networks on the basis of transformation of the general term from the original matrix into the resultant one with the aid of incidence coefficients written directly in the resultant matrix without writing the component matrices with oriented incidence coefficients in advance. Orig. art. has: 3 figures and 7 formulas. Based on author's Eng. abst. IPRS

SUB CODE: 09, 12 / SUBM DATE: 22Jan65 / ORIG REF: 003

Card 1/199.

IDC: 621:392.3

MIKULA, Jelena, ing.

Polyester lacquers for wood. Kem ind 10 no.6:Suppl.C-53—C-55 Je 161.

1. "Chromos", Zagreb.

MIKULA, Jelena, ing.

Technology of the hardening of polyester resins. Kem ind 10 no.9:273-275 S '61.

1. "Chromos", Zagreb.

MIKULA, Jelena, ing.

Technology of hardening of polyester resins. Kem ind 10 no.12: 499-501 D '61.

Y/002/62/000/007/002/002 D267/D308

AUTHORS:

Alkalaj-Dobronić, Tatjana, and Mikula, Jelena,

Engineers

TITLE:

Properties and uses of reinforced polyester resins

PERIODICAL: Kemija u industriji, no. 7, 1962, 421 - 431

Zagreb (Yugoslavia, Croatia). The article consists of the following sections: 1) General information; 2) hardening of polyester resins (cold hardening, warm hardening, hardening as a function of temperature, catalyst, accelerator and charge size) with numerous graphs; 3) the use of fillers, coloring matter and glass in reinforced polyesters; 4) processing of polyester resins (casting, lamination, contact pressing, low-pressure pressing); 5) uses of reinforced polyester resins (ship-building, building construction, electrical engineering, military and mining helmets; parts of industrial apparatus, furniture, vehicles, etc.); and 6) safety measures and work safety.

Card 1/1

MIKULA, Jelena, inz.; DOBRONIC, Tatjana, ins.

Use of reinforced polyester resins in shipbuilding industries. Kemija u industriji 11 no.7:401-407 Jl '62.

DOBRONIC, Tatjana, inz.; MIKULA, Jelena, inz.

Application of hardened polyester resins in shipbuilding industry. Brodogradnja 13 no.5:175-186 162.

MIKULA, Jelena, dipl. inz.

Processing of the Chromoplast polyester resins. Kez ind 13 nc.12: Suppl:Strueno-komercijalna publikacija Chromos-Katran-Kutrilin 5/6: 1025-1029 '64.

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001134210011-7

RM 20831-66 EWP(j) YU/0002/65/000/006/0455/0460 ACC NR. AP5018450 AUTHOR: Mikula, Jelena (Graduate engineer) TITLE: Mechanical and chemical properties of polyester resins SOURCE: Kemija u industriji, no. 6, 1965, 455-460 TOPIC TAGS: resin, chemical stability, polyester plastic, tensile strength, bending stren compressive strength, impact strength, Young modules, hardness, corrosion resistance ABSTRACT: This is a survey article which compares the mechanical and chemical proper of several polyester resins. It covers Viapal H220 and H225, Palatal P4 and P6, and Chroplasts M, P. and W. Chemical stability was tested by subjecting samples (from 7 days to months) to concentrated and dilute HCl, NaOH, HNO3, H2SO4, maleic acid, NII4OH, Na3P KOII, II3PO4, methanol, xylene, methylene dichloride, acetone, gasoline, and distilled water. Comprehensive data are presented in the form of comparison tables and diagrams, covering tensile strength, bending strength, compressive strength, impact strength, Young modulus, hardness, and corrosion stability. The article concludes with a brief discussion stability against atmospheric corrosion and other causes of aging. Orig. art. has: 7 figure and 18 tables. and 18 tables. ASSOCIATION: None SUB CODE: MT, GC ENCL: 00 SUBMITTED: 00 OTHER: 000 NO REF SOV: 000 Card 1/1 vmb

MIKULA, Jelena, diploinz.

Application of Chromoplust-polyester reside. Pt. 1. Kem ind 13 no.10:795-799 0 164.

263250

41834 S/262/62/000/004/006/024 I014/I252

AUTHOR:

Mikula, Jiři

TITLE:

Gas turbine

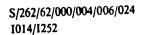
PERIODICAL: Referativnyy zhurnal, Silovyye ustanovki, no. 4, 1962, 33, abstract 42.4.190 P. Czech.

patent, class 46 f, 3/10, no. 95676, June 15, 1960

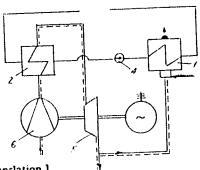
TEXT: A gas turbine layout with intermediate heat-transfer agents is proposed. In heat exchanger 1 (see figure) any fuel can be burned, heating a liquid heat transfer agent, e.g. sodium. Pump 4 pumps the liquid into heat exchanger 2, where compressed air from compressor 6 is preheated. The energy of the compressed and heated air is transmitted to turbine 5. Part of the exhaust gases is fed into the plant furnace.

[Abstracter's note: Complete translation.]

Card 1/2



Gas turbine...



[Abstracter's note: Complete translation.]

Card 2/2

\$/262/62/000/021/001/003 E194/E435

AUTHORS:

Liška, Jiří; Mikula, Jiří

TITLE:

Operation of a steam-power installation with combined

heating using nuclear or fossil fuel

PERIODICAL: Referativnyy zhurnal. Otdel'nyy vypusk. 42. Silovyye ustanovki, no.21, 1962, 16,

abstract 42.21.57 P. (Czech Pat. cl.14h, 1/14,

no.100428. August 15, 1961).

Three schematic arrangements of a steam-power installation are described and a method of operation is proposed using either nuclear or fossil fuel. Raising the heat content of the steam by energy from the nuclear reactor is accompanied by the utilization of heat of ordinary fuel, or fuel mixtures burnt in The steam-power installation circuits which are the turbine. patented are noteworthy for the amount of equipment used, and its complexity; it consists of a nuclear reactor and cooling system, a two-stage axial compressor, a turbine, systems of coolers, condensers, regenerative feed water heaters and generators. operating principles of nuclear power units are described and they Card 1/2

Operation of a steam-power ...

S/262/62/000/021/001/003 E194/E435

operation of a becam power ...

are compared with steam, gas and steam-air sets. 3 figures.

[Abstracter's note: Complete translation.]

Card 2/2

HIRULA, Jack

Studies on barofunction of the ear. Voj. sdrav. listy 19 no:7-8 166-168 July-Aug. 1950. (CLML 20:1)



Observation on certain enotional reactions in parachutists. 70j. zdrav. listy 20 no.3:128-129 May-June 1951. (CLML 20:11)

PAVIOK, Jan, MUDr.; CAPEK, Dominik, Prof., MUDr.; CERNOCH, Otakar, MUDr.; STV FRAK, Jiri, MUDr.; MALCIK, Vladinir, MUDr.; MIKULA, Jiri, MUDr.; CAMSKY, Jiri, MUDr.

Special hygiene of aviators. Voj. zdrav. knihovna no.22:1-175 1954.

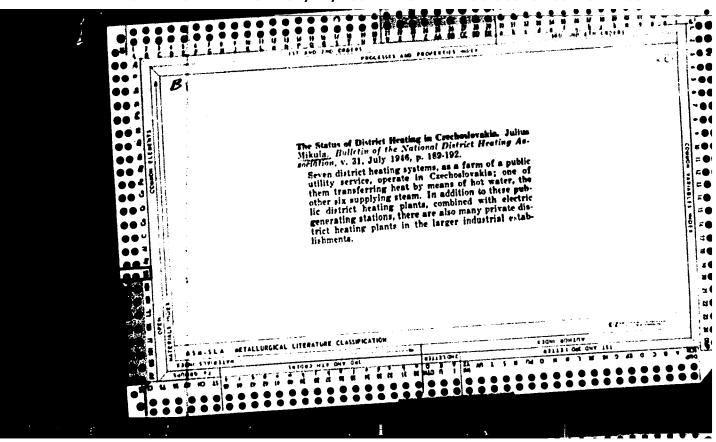
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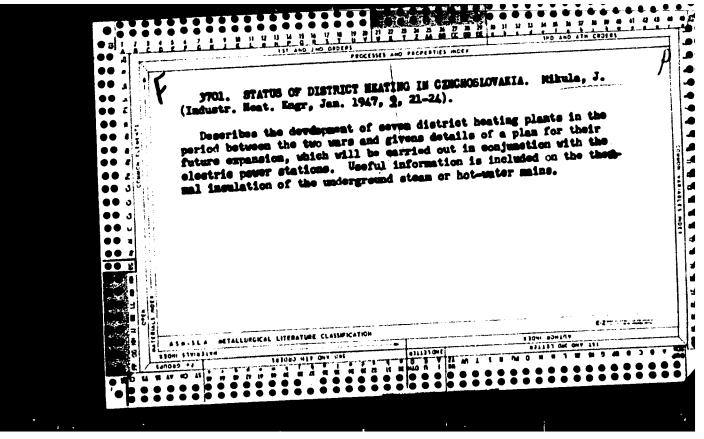
MIKULA, J.ici

"Sanitary Problems of Air Transportation", P. 307, (ERIDLA VLASTI, No. 13, June, 1954, Praha, Csechoslovakia)

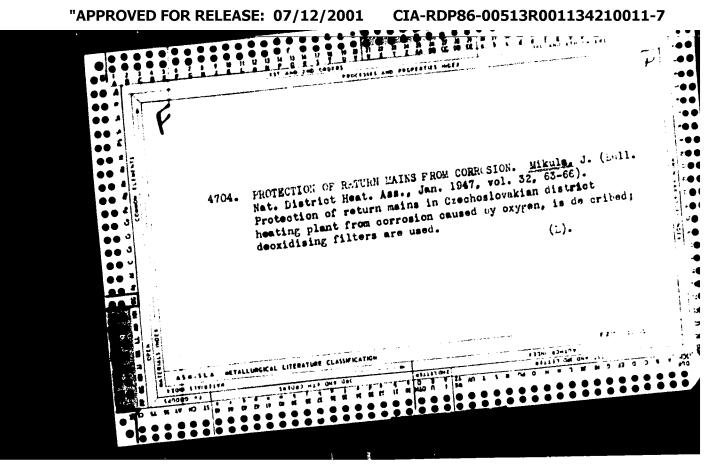
SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

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MIKULA, JULIUS

Zaklady potrub ni techniky. / Vyd. p. / Praha, Statni pedagogicke nakl., 1953. 122 p. (Ucebni texty vysokych skol) / Fundamentals of pipe engineering. Illus., bibl., diag tables /

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, LC., VOL. 3, NO. 1, Jan. 1954, Uncl.

MIKULA, J.; HUTLA, D. - Strojirenstvi - Vol. 5, no. 2, Feb. 1955.

Theory of the function of through-shaped valves. p. 88.

80: Monthly list of East European Accessions, (EMAL), LC, Vol. 4, Eo. 9, Sept. 1955 Uncl.

Thermal and pressure conditions in heating systems and long-distance heat pipelines p. 160

TECHNICKA PRACA. Czechoslovakia, Vol. 7, No. 4, 1955

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959 Uncl.

Main trends in the design of pipeline supports. p. 212. (Strojirenstvi, Vol. 7, No. 3, Mar 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

Space between pipeline fittings. p. 415.

(Strojirenstvi. Vol. 7, no. 6, June 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl

LISKA, Jiri, RNDr; MIKULA, Julius, doc. inz. dr.

Mathematical model of heat networks. Energetika Cz 14 no.10:473-477 0 '64.

1. Research Institute of Power Engineering, Prague.

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications.

Η

Chemical Engineering.

Abs Jour: Ref Zhur-Khimiya, No 6, 1959, 19643

Author : Mikula, Julius Inst : -

Title : Calculation of Pressure Drop During Flow

of Liquid Through Pipelines.

Orig Pub : Zdravotni techn. a vzduchotechn., 1958, 1,

No 3, 134-136

Abstract : Existing methods for calculating the coef-

ficient of friction under laminar, circulatory, and turbulent systems of liquid flow in round pipelines are examined. A table of absolute values of roughness is

Card : 1/2

"Operation of steam-gas equipment for combined heating with nuclear and classic fuels and with intensified heating of steam."

Energetika. Praha, Czechoslovakia. Vol. 8, no. 12, Dec. 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Uncles

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MIKULA, J., inz. dr., doc.

New Czechoslovak Standard 13 1140: Piping, Heating Conduct; Mechanical Part. Zdravot tech 6 no.6:272-273 *63.

MIKULA, J., doc., inz. dr.

"Piping hydraulics" by H.Richter. Reviewed by J.Mikula.

Strojirenstvi 13 no.6:478 Je '63.

BOSINA, Ladislav; MIKULA, Julius, doc. inz. dr.

Friction resistance of heating system pipes installed on taselt supports. Energetika Cz 14 no.11:538-539 N '64.

1. Ministry of Health, Prague (for Bosina). 2. Research Institute of Power Engineering, Prague (for Mikula).

MIKULA, Julius, doc. inz. dr.

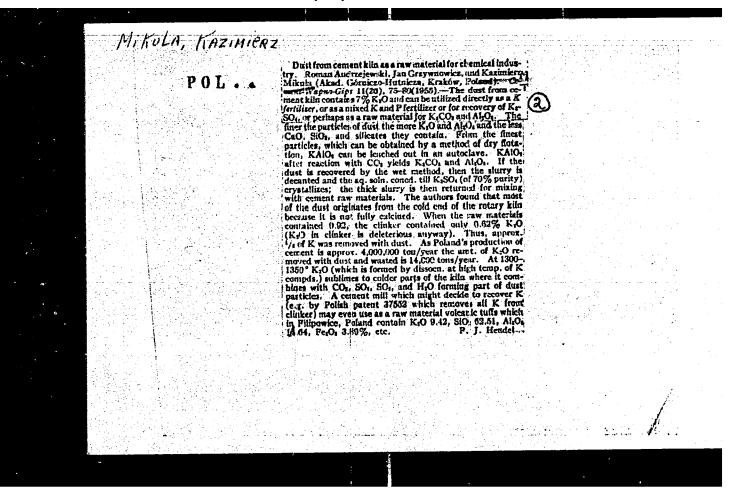
Friction resistances in the supports of heating pipe network. Energetika Cz 14 no.62287-290 Je •64

1. Research Institute of Power Engineering, Prague.

MIKULA, Julius, coc. in tedre

Importance of primary through months by of the schulled ductless constructions of neather networks. Therestika Os 14 no.7:316-317 J1764

1. Research institute of mover inginessing, trague.



MIRULA, Maximisonas i MORA, Junias Mistal, Principala.

Results of pincipalan on the Syreat traity, a evaluating fun.
Principal neuroscitech 208 no. 707-27 194

1. Pepariment of Heat Navagensa: Total of Mint g and Metallurgy, Erakow.

MIKULA, M., ing.

Selection of the most economic type of subscription telephone lines. Telekomumikacije 10 no.3:14-16 J1 t61.

(EEAI 10:9/10)

(Telephone)

MIKULA, M.; NOVAK, J.

Roentgenologic investigations of the pelvis in newborn and their results. Acta chir.orthop.traum.cech 18 no.1:7-24 1951. (CLML 20:7)

1. Prof. M. Mikula, M.D. of the Department of Children's Surgery and Orthopedics and J. Novak, M.D. of the Second Obstetrical Clinic.

MIKULA, O., inz.

"Processing of color photographic materials" by L. Baran. Reviewed by O. Mikula. Jemna mech tech 6 nc. 7:224. Jl '61

MIKULA, Oldrich; VESELY, Vaclav; NOVANSKY, Jozef

Examination of urea decomposition under urea desaxing conditions. Pt.2. Ropa a uhlie 5 no.8:230-234 Ag 63

1. Katedra chemie a technologie ropy a Katedra procesov a zariadeni chemickej technologie pri Slovenskej vysokej skole technickej, Bratislava.

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MIKULA, RATSLAV

Czechoslovakia

CA:47:11609

"Determination of sulfites in water."

Chemie (Prague) 8, 179 (1952)

MIKULA, R.

"Chemistry in the Treatment of Surface Waters." p. 227 (<u>Voda</u>, Vol. 33, no. 9, Sept. 1953, Praha)

So: Monthly List of Enstern Accessions / Library of Congress, March 1954

Use of silicon as an auxiliary disintegrating agent in treatment of surface waters. p. 244.
VODA, Prague, Vol. 34, no. 8, Aug. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6, June 1956, Uncl.

Testing oxidability of water. p. 253. VODA. Vol. 34, no. 8, Aug. 1954.

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 5, No. 6, June 1956 Un

Experience with the upward-flow clarification installation in the pilot plant of the Prague Water Works.

p. 165 Vol. 5, no. 5, May 1955 VODNI HOSPODAKSTVI Praha

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 3 March 1956

MIKULA, R. Phenolic impurities in drinking water. p. 313.

Vol. 5, No. 9, Sept. 1955 VCINI HCSPCDARSTVI TECHNOLCGY Praha, Czechoslovakia

So: East Europeon Accessions, Vol. 5, No. 5, May 1956

MIKULA, R. Proposition for a numerical expression of the smell of water. p. 374.

Vol. 5, No. 10, Cet. 1955 VCDNI HCSPCDARSTVI Praha, Czechoslovakia TECHNOLCCY

So: East Europeon Accessions, Vol. 5, No. 5, May 1956

MIKULA, R. Problem of more economical operation of purification and filtration plants and the problem of waste water resulting from the process. p. 412.

Vol. 5, No. 11, Nov. 1955 VCDNI HOSPODARSTVI TECHNOLOGY Praha, Czechoslovakia

So: East Europeon Accessions, Vol. 5, No. 5, May 1956

POKORNY, O.; MIKULA, V.

Self-oscillating converter with a tunnel diode. Slaboproudy obzor 24 no.8:495 Ag 163.

4

CZECHOSLOVAKIA

MIKULA, V.; ODLOVA, S.; SOKOL, I.; UHLIR, F.; Psychiatric Hospital (Psychiatricka Lecebna), Opava.

"Lethal Complications Resulting from Majeptil Treatment."

Prague, Ceskoslovenska Psychiatrie, Vol 62, No 6, Dec 66, pp 410 - 412

Abstract Authors' English summary modified 7: 3 cases of death resulting from casual treatment with thioperazine (Majeptil) are described. The deaths occured 3 - 6 days after the beginning of the treatment. All the lethal cases started with a sudden rise in body temperature to 40°C without a somatic substantiation. Symptomatic therapy failed; in 1 case uremia was demonstrated shortly before death. He reason for the deaths were found. 2 Western, 1 Russian reference. (Manuscript received 21 May 65).

1/1

CZ/0039/64/025/009/0555/0556 **可A(h)** 1. 00277-66 AP5023914 ACCESSION NR: AUTHOR: Mikula, Vladimir (Engineer); Pokorny, Otakar (Engineer) TITLE: Direct intermediate parametric amplifier with a capacitance diode Slaboproudy obzor, v. 25, no. 9, 1964, 555-556 TOPIC TAGS: parametric amplifier, amplifier design, semiconductor diode ABSTRACT: Formulas are presented for deriving characteristic values of the emplifier by means of the admittance matrix. Included are an equivalent diagram of the direct intermediate nongenerated parametric amplifier with a capacitance diode and the basic diagram of an experimental parametric amplifier. Orit. art. has: 2 figures, 6 formulas and 3 graphs. ASSOCIATION: none SUB CODE: EC ENCL: SUBMITTED: **JPRS** OTHER: 004 NR REF SOV: Card 1

CZ/0079/65/007/003/0246/024 L 29400-66 SOURCE CODE: ACC NR: AP6019961 AUTHOR: Mikula, V. (Opava); Ryznar, J.; Hosak, L; Komenda, S. B

ORG: Psychiatric Hospital, Opava (Psych. lecebna)

22 TITLE: Interruption of hypoglycaemic come by means of amyl nitrite This paper was presented at the 7th Annual Psychopharmacological Meeting, Jesenik, 20-23 January 1965/

SOURCE: Activitas nervosa superior, v. 7, no. 3, 1965, 246-247

TOPIC TAGS: therapeutics, drug treatment

ABSTRACT: 37 men treated with Sakel therapy were given 0.15 g of amyl nitrite by inhalation; in 13 the coma was interrupted, ABSTRACT: in 19 the coma was changed into a sopor, in 5 there was no effect. In another group of 31 Sakel comas, amyl nitrite was applied 30 min after the extinction of the nasopalpebral reflex. Only 10 regained consciousness. Out of 44 patients in deep sopor, 40 responded to amyl nitrite by regaining conscious-ness. Orig. art. has: 1 table. [Orig. art. in Eng.] [PRS]

SUB CODE: 06/ SUBM DATE: none

1/1

CAJKA, Josef, prof. inz. C.Sc.; POKORNY, Otakar, Inz. CSc.; MIKULA, Vladimir, inz.

Sclution of circuits with noninertial parametric n-poles in the stationary state by the matrix method. El sch cas 16 no.4:193-200 '65.

1. Antonin Zapotocky Military Academy, Brno. Submitted September 5, 1964.

L 12865-65 AFWE/ASD(a)-5/SSD/8SD/AFETR/RAEN(a)/RAEN(1)/ESD(c)/ESD(dp)/ESD(gs) ACCESSION NR: AP4044985 Z/0039/64/025/009/0537/0542

AUTHORS: Pokorny, Otakar (Engineer); Mikula, Vladimir (Engineer) 8

TITLE: Use of auxiliary circuits for the analysis of transmission systems with parametric one-ports

SOURCE: 61aboproudy obzor. v. 25, no. 9, 1964, 537-542

TOPIC TAGS: parametric amplifier, frequency converter, transistorized circuit, circuit theory

ABSTRACT: In view of the complexity of the differential equations describing the relation between the pumping voltage source and a parametric amplifier, or a similar system in which a parametric one-port network interacts with a number of alternating voltage sources whose frequencies form a well defined spectrum, the author employs a quasilinear approach which enables him to make use of an auxiliary equivalent circuit of the one-port network, and consequently write

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| | down a complete or sin which can then be used A method of determining tary equivalent circuit and 12 formulas. | I to determine the og the admittance of | various volta matrix rapidly | ages and currents |
| | ASSOCIATION: None | | | |
| A Control of the Cont | SUMMITTED: 30Jan64 | | | ENCL: 00 |
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MIKULA, Vladimir, inz.

Parametric amplifiers. Slaboproudy obzor 25 no.8:Suppl:Priloha pro mlade inzenyry. 25 no.8:P33-P40 Ag '64.

(OKORNY, Otakar, inv.; MIKULA, Seminor, ind.

Use of auxiliary scheme for success of transmission cystems with parametric two-pole networks. Stateproudy bear 25 no.9:537-542 S '64.

Direct parametric amplifier with capacitence diode. Told.: 555-556

CZECHOSLOVAKIA

UDC 615.361.379-092.22:616.33-008.6

RYZNAR, J.; MIKULA, V.; Psychiatric Hospital (Psychiatricka Lecebna), Opava, Director (Reditel) Dr S. HREBICEK.

"Acidity of Gastric Juices During Insulin Hypoglycemic Coma."

Prague, Casopis Lekaru Ceskych, Vol 105, No 32, 15 Aug 66, pp 853 - 854

Abstract Authors! English summary modified J: Extreme hypoglycemia during insulin coma provokes an increased production of HCl in the stomach. There is no evidence that this hyperproduction of acid causes gastrointestinal disorders. 1 Table, no references.

1/1

- 24 -

- 168 -

MIKULAJ, L.

Physiopathology of the adrenal cortex with special reference to the treatment of hypofunction. Lek. obsor 3 no.1-2:46-56 1954.

1. Z Mndokrinologickeho ustavy v Bratislave. (ADREMAL CORTEX, diseases, *hypofunct., ther.)

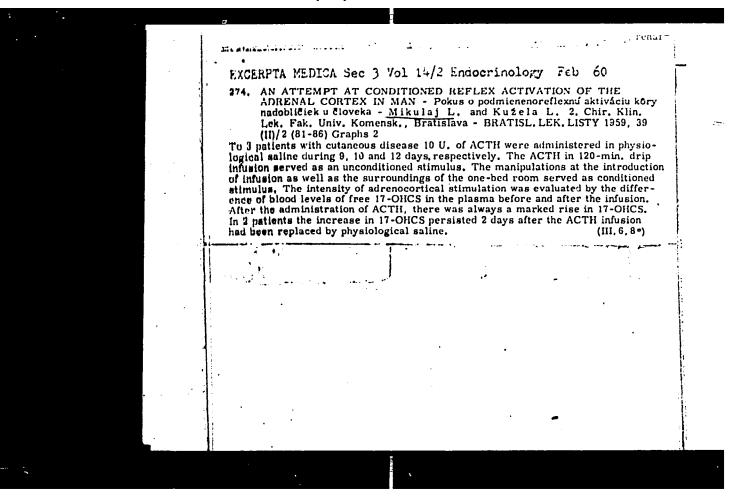
MIKULAJ, Ladislav

Stitna zlaza. (Thyroid Gland. illus.) Bratislava, Slov. ustav zdravot. csvety, 1957. 3lp. Vol. 28 of the series Zdravotnicke aktuality (Current problems of health).

Short description of activity and diseases of the thyroid gland, offered to public, especially in certain areas of Sloyakia where the population suffers from its enlargement and decreased activity.

Bibliograficky katalog, CSR, Slovenske khihy, Vol. VIII. 1957. No. 10. p.317.

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001134210011-7



MIKULAJ, L.

Physiological studies on adrenocortical reactions to ACTH in man. Bratisl. lek. listy 42 no.6:368-377 162.

1. Z Endokrinologickeho ustavu SAV v Bratislave, riaditel MUDr. J. Podoba, C. Sc.

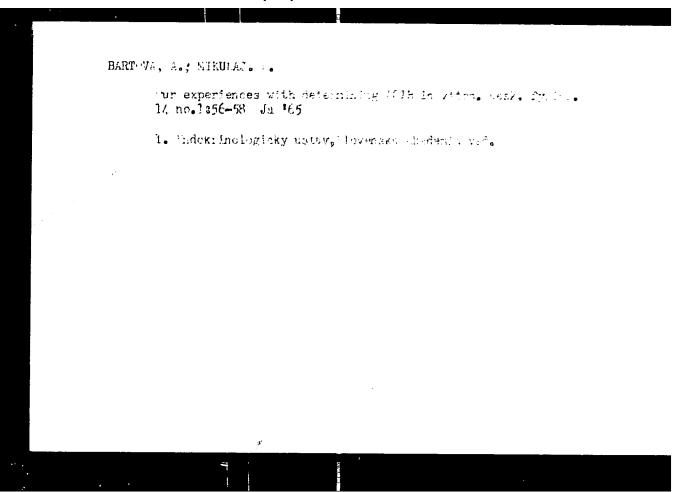
(CORTICOTROPIN pharmacol)
(ADRENAL CORTEX HORMONES blood)

SISKA, K.; KUZELA, L.; MIKULAJ, L.

Adrenal cortex activity during extracorporeal blood circulation. Bratisl. lek. listy 63 no.3:143-148 163.

1. II chirurgicka klinika Lek. fak. Univ. Komenskeho v
Bratislave, veduci akademik K. Siska. Endokrinologicky ustav
SAV v Bratislave, riaditel MUDr. J. Podoba, C.Sc.
(HEART, MECHANICAL) (HEART SURGERY)
(HEART DEFECTS, CONGENITAL)
(ADRENAL CORTEX HORMONES)

(BLOOD CHEMICAL ANALYSIS)
(ADRENAL CORTEX HYPOFUNCTION)



BARTOVA, A.; MIKULAJ, L.

Levels of free and bound 17-hydroxycorticosteroids in the human plasma. Bratisl. lek. listy 45 no.9:547-553 15 My'65.

1. Endokrinologicky ustav Slovenskej akademie ved, Bratislava (riaditel: MUDr. J. Podoba, CSc.).

| 2053-66 | 65/000/001/0056/00 | 13 |
|---|----------------------------------|-----------|
| ACCUSS 2001 Bill: AP\$027371 C2/0053/ | | , |
| AUTHOR: Bartova, Agi Mikelaj, L. | 110 | |
| TIME: Esperience with determination of ACTH in Vitre | 168 | • |
| SOUNCE: Casheelovensku fysiologie, no. 1, 1965, 56-98 | | |
| | | |
| TOPIC TAGE: ACTH, gland, rat, endocrinology, biochemistry | gland in vitro by | ACT |
| ABSTRACT: The method is based on stimulation of the advenced and determination of the corticosterone produced by the glassing tests of this method using advence glands of rate are technique of the analysis, its accuracy and reproducibility art. has 2 graphs and 1 table. | described. The are discussed. On | dg. |
| ABSTRACT: The method is based on stimulation of the advenced and determination of the corticosterone produced by the glassing tests of this method using advenul glands of rate are technique of the analysis, its accuracy and reproducibility art. has 2 graphs and 1 table. ASSOCIATION: Endokrisològicky ustav SAV, Bratislava (Hadee) | described. The are discussed. On | dg. |
| ABSTRACT: The method is based on stimulation of the advenced and determination of the corticosterone produced by the glassing tests of this method using advence glands of rate are technique of the analysis, its accuracy and reproducibility art. has 2 graphs and 1 table. | described. The are discussed. On | dg. |
| ABSTRACT: The method is based on stimulation of the advenced and determination of the corticosterone produced by the glassing tests of this method using advenal glands of rate are technique of the amelysis, its accuracy and reproducibility art. has 2 graphs and 1 table. ASSOCIATION: Endokrisologicky ustav SAV, Bratislava (NadocisaV) | described. The are discussed. On | dg. |

L 33516-66 ACC NR: AP6023506 South

SOURCE CODE: CZ/0049/65/000/011/0856/0861

AUTHOR: Mitro, Alexander (Doctor; Bratislava); Mikulaj, Ladislav--Mikulay, L. (Doctor; Bratislava)

ORG: Institute of Endocrinology, SAV, Bratislava (Endokrinologicky ustav SAV)

TITLE: Karyometric changes in the hypothalamus of the male albino rat during adaptation to repeated stress. I. nn. ventromedialis, dorsomedialis, and arcuatus SOURCE: Biologia, no. 11, 1965, 856-861

TOPIC TAGS: cytology, rat, encephalology, behavior pattern, nervous system

ABSTRACT: Karyometric changes in the hypothalamic nucleus ventromedialis, n. dorsomedialis, and n. arcuatus were investigated under the influence of repeated stress induced by a 2 1/2 hour immobilization. In n. dorsomedialis and arcuatus marked changes occur only in the first days of immobilization. Improvements occur later after adaptation. Changes in n. ventromedialis deepen under repeated stress (karyometric curves move to the left). This proves that n. ventromedialis participates significantly in acute response to stresses, and that it is an essential component of adaptation to repeated stress. Orig. art. has: 4 figures. [Based on authors' Eng. summary] [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 013

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CZECHOSLOVAKIA

KVETNANSKY, R; MITRO, A; MIKULAJ, L; HOCHAN, G

Institute of Endocrinology, Slovak Academy of Sciences (Endokrinologicky ustav Slovenskej akademie), Bratislava - (for all)

Bratislava, <u>Bratislavske lekarske listy</u>, No 1, January 1966, pp 35-41

"Catecholamines of the adrenal medulla and the morphological changes of the adrenal medulla during adaptation to repeated immobilization atrees."

CZECHOSLOVAKIA



VIGAS, M., KVETHANSKY, R., NEMETH, S., MIKULAI, L. Endocrinological Institute, Slovak Academy of Sciences (Endokrinologicky Ustav SAV) Bratislava.

"Change in Metabolic Response to Stress in Adapted and Non-Adapted Rats After the Blockage of Enzymatic Degradation of Catecholaminer

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 96

Abstract: Stress was induced by immobilization for h hours; stress induces hyperglycemia, hyperphosphatemia, hyperpyruvatemia and an increase in the level of nonesterified fatty acids in the plasma. The reaction of adapted animals is less pronounced. Ho mg of pyrogallol administered to nonadapted rats before immobilization reduced their hyperglycemia response to the stress to the level of adapted rats. It seems that the reduction of catecholamines in blood and the resulting reduced metabolic response of the organism are due to an accelerated degradation by catechol-O-methyltransferase. No references. Submitted at "16 Days of Physiology" at Kosice, 28 Sep 65.

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CZECHOSLOVAKIA

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MITRO, A., KVETNANSKY, B., MIKULAS Endocrinological Institute, Slovak Academy of Sciences (Endokrinologicky Ustav SAV), Bratislava.

"Changes in the Catecholamine Content in the Pulp of Adrenal Glands During Adaptation and Their Morphological Basis."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, pp 97-98

Abstract: The influence of a repeated immobilization stress on the catecholamine content and histological aspect of adrenal gland pulp was investigated for 45 days. At the beginning, the catecholamine content decreased and at the end increased strongly. The weight of the pulp of adrenal glands increased during the experiment. The nuclei of the pulp cells increased after 7 days of experimentation. 3 Western references. Submitted at "16 Days of Physiology" at Kosice, 29 Sep 65.

CZECHOSLOVAKIA

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MIKULAJ, L., CSIBA, J., KVETNANSKY, R; Endocrinological Institute Slovak Academy of Sciences, (Endokrinologicky Ustav SAV),

"Indirect Investigation of Adrenocorticotropic Activity During Adaptation to Repeated Stress."

Praguo, <u>Geskoslovekska Fysiologie</u>, Vol 15, No 2, Feb 66, pp 98-39

Abstract: The study was based on the investigation of contralateral hypertrophy of adrenal glands following unilateral adrenate ectomy in 2 groups of rats. The first group was subjected to left side adrenalectomy and then subjected to stress; the second group was first subjected to stress, then operated upon, and subjected to stress again. Some animals in both groups were not subjected to stress after the operation. No difference in the weight of the surviving adrenal gland was found in the different groups. Corticosterone levels differed only in animals subjected and those not subjected to stress. 1 Western, 1 Czech reference. Submitted at the "16 Days of Physiology" at Kosice, 27 Sep 65,

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001134210011-7

MACASEK, F., promovany chemik; TRESA, Fr., inz.; MIKULAJ, V1. promovany chemik; KCPUNEC, R., promovany radiochemik

Use of radioactive isotopes for water indication in the examination of bottom water flow. Vodohosp cas 12 no. 1: 122-133 '64.

1. Chair of Inorganic and Physical Chemistry, Faculty of Natural Sciences, Comenius University, Bratislava; Chair of Basic Construction, Geology and Dams, Faculty of Construction Engineering, Slovak Higher School of Technology, Bratislava.

MIKULAKI, Z.; SPERJKI, F.

Initial training of track pervice workers in industrial safety and hydiene. p. 114.

PEZETLAD MOLEJOWY DEOCONY. (Mydawnictum Kom nikacyjne) Warszawa, Ioland. Vol. 11. no. 6, June 1959.

Monthly List of East European Accessions (EEAI), IC, Vol. 3, no. 7, Aug. 1959. Uncl.

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THE MANIGHE , S. A.

Mirall Ladi, A. s.: "The mistory of sable health in the Transacrast thian Chlast before the union with the Ukrainian Chl." Wiev Order of Labor Red Barner Medical Inst imeni Borocolets. Kiev, 1955. (Dissertation for the Derree of Candida's in Medical Sciences).

Source: Knizhnaya letopis' No. 26 1996 Nescow

KOLDOVSKY, O.; KRECEK, J.; KRECKOVA, J.; MIKULAS, I.

The influence of rearing in the dark on the development of water metabolism in young rats. Chekh fis 2 no.4:267-272 153. (EEAL 3:7)

1. From the Biological Institute of the Csechoslovak Academy of Science, Physiology Department, Prague.

(DARKNESS, effects,

on water metab. in young rats)

*on water metab, in young rats)
(WATER, metabolism,
*eff, of darkness in young rats)

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001134210011-7

MIKULAS, I.; MARTINEK, J.

"Changes in the Glycogen Content of Muscle after Denervation of Early Postnatal Life in Rats." p. 45, (CESKOSLOVENSKA FYSIOLOGIE, Vol. 3, No. 1, Jan. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4 No. 5, May 1955, Uncl.

MIKULAS, I. MIKULAS, I.

多点的社会的证据,这一种政治的企业。

Changes in the glycogen content of muscle after denervation in early post-natal life in rats. Chekh. fixiol. 3 no.1:53-58 1954.

1. Biology Institute, Csechoslovak Academy of Science. Physiology Department, Prague.

(GLYCOGEN, metabolism,

musc., after denervation in newborn rats)
(MUSCLES, metabolism,

glycogen, after denervation in newborn rats)

CIA-RDP86-00513R001134210011-7" **APPROVED FOR RELEASE: 07/12/2001**

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001134210011-7

: GLECHOSLOVATIA Country Category= : Human and Animal Physiology. Ţ The Physiology of Ago. Abs. Jour. : Aef Ehre-Biol., No 20, 1050, 106074 : Fikulas, T. author Institut. Titla : Physiological Problems of Mifrar Ages in lammals and in lan. Orig. Pub. : Ceskosl. Tystol., 1007, 4, 10 4, 563-566 Abstract : A report on a conference which took place at Liblice (Jzechoslov it) in Docember 1956 is rescated. Card: 1/1

ROHLICEK, V.; MIKULAS, I.

A wireless stimulator for work with unrestrained animals. Cesk. fysiol. 13 no.1: 62-66 Ja*64.

1. Fysiologicky ustaw CSAV, Praha.

MIKULAS, I.

Improvised stereotactic apparatus for work with rats. Cesk. fysiol. 13 no.2:175-177 Ja 64

1. Fysiologicka laborator Ustavu pro peci o matku a dite, Praha.

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MIKULAS, J.

Stump carcinomas of the stomach. Cesk. gastroent. vyz. 15 no.2:135-137 Mr *61.

1. Chirurgicke oddeleni OUNZ # Ziline, prednosta prim. MUDr. J. Kubiny.

(GASTRECTOMY compl) (STOMACH NEOPLASMS)

MIKULAS, J.

Contribution to phrenic injuries. Rozhl. chir. 41 no.5:353-356 !/y 162.

1. Chirurgicke oddeleni OUNZ v Ziline, prednosta MUDr. J. Kubinyl. (DIAPHRAGM wds & inj)

MIKULAS, J., inz.

"Handbook of data processing" by K.Steinbuch and others. Feviewed by J.Mikulas. Automatizace 7 no. 7:Suppl. Technicka literatura no. 7:insert 164.

PLAVEC, M.; SEHNAL, L.; MIKULAS, J.

Trajectories of particles ejected from Iq in RW Tauri. Biul astr Cz 15 no.5:171-178 64

1. Astronomical Institute, Gzeshoslovak Academy of Sciences, Ondrejov (for Plavec, and Sehmal). 2. Calculation Research Center, Prague (for Mike as).